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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/684,939	10/14/2003	Keiji Mabuchi	09792909-5698	7761
26263	7590	01/25/2011	EXAMINER	
SNR DENTON US LLP P.O. BOX 061080 CHICAGO, IL. 60606-1080			INGHAM, JOHN C	
ART UNIT	PAPER NUMBER			
	2814			
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01/25/2011	PAPER			

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief	Application No. 10/684,939 Examiner JOHN C. INGHAM	Applicant(s) MABUCHI, KEIJI Art Unit 2814
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–The MAILING DATE of this communication appears on the cover sheet with the correspondence address –

THE REPLY FILED 03 January 2011 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

a) The period for reply expires 3 months from the mailing date of the final rejection.
 b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because

(a) They raise new issues that would require further consideration and/or search (see NOTE below);
 (b) They raise the issue of new matter (see NOTE below);
 (c) They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 (d) They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).

4. The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).

5. Applicant's reply has overcome the following rejection(s): _____.
 6. Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).

7. For purposes of appeal, the proposed amendment(s): a) will not be entered, or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.
 The status of the claim(s) is (or will be) as follows:
 Claim(s) allowed: _____
 Claim(s) objected to: _____
 Claim(s) rejected: 1,2,4-9,16,17 and 19-33
 Claim(s) withdrawn from consideration: _____

AFFIDAVIT OR OTHER EVIDENCE

8. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).

9. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

10. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. The request for reconsideration has been considered but does NOT place the application in condition for allowance because:

12. Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). _____

13. Other: See Continuation Sheet.

/J. C. I./
 Examiner, Art Unit 2814

Wael M Fahmy/
 Supervisory Patent Examiner, Art Unit 2814

Continuation of 13. Other:

The Final Rejection of 7 Sept. 2010 is maintained. Regarding the arguments on page 2 that Fox fails to disclose a threshold channel potential for turning on a drain and transfer transistor are higher than a potential which depletes the photoelectric converting element, Fox discloses a transfer transistor (16) and drain transistor (22) with gate nodes (TCK, EC). In Fig 11 Fox illustrates that all charge is drained through the drain transistor, and in Fig 12 Fox illustrates that all charge is transferred through the transfer transistor.

As the instant Specification explains, the gate voltage and threshold of the transfer and drain transistors, as well as the dose to the photoelectric element, are adjusted such that the channel potentials on the turned-on drain and transfer transistors are both higher than a potential for depleting the photoelectric element (paragraph 79, instant Spec). Due to this, the transfer transistor transfers all of the photoelectrons to the floating diffusion, while the drain transfers all of the photoelectrons onto the drain (paragraph 80).

Fox illustrates the same result, wherein the transfer transistor transfers all of the photoelectrons to the floating diffusion, while the drain transfers all of the photoelectrons onto the drain. Furthermore, Fox recites that implant doses to the drain and transfer transistors (i.e. threshold voltage adjustment), as well as gate voltages, can result in fully voided transistors (i.e. the channel potential for turning on a drain and transfer transistor are higher than a potential which depletes the photoelectric converting element, col 9 ln 18-28). See also column 8 ln 60 and column 11 ln 29-49.